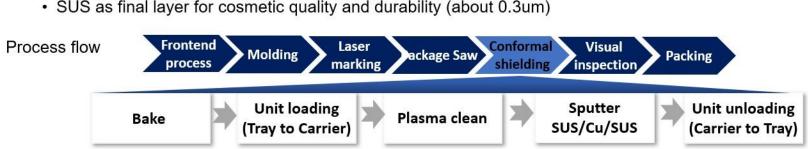
EMI shielding solution

Sputtering technology

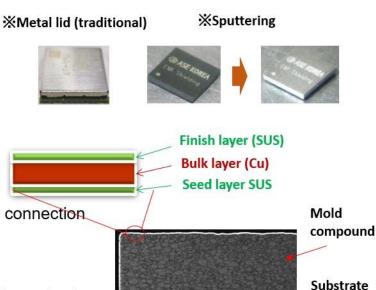
Package conformal shield is essentially a true package-scale technology since the resulting size is same with original one. Sputtering process on epoxy mold compound is the majority conformal shielding method in assembly process

Technology solution

- Thin sputtered shield on top and 4 sides of package makes connection with vias or metal traces at the edge of the package
- Typical thickness: Side > 1um, Top > 3um
- Stack definition of sputtered metal
 - SUS as seed layer for adhesion (about 0.3um)
 - Cu as conductive layer (1~3um on sidewall)
 - SUS as final layer for cosmetic quality and durability (about 0.3um)

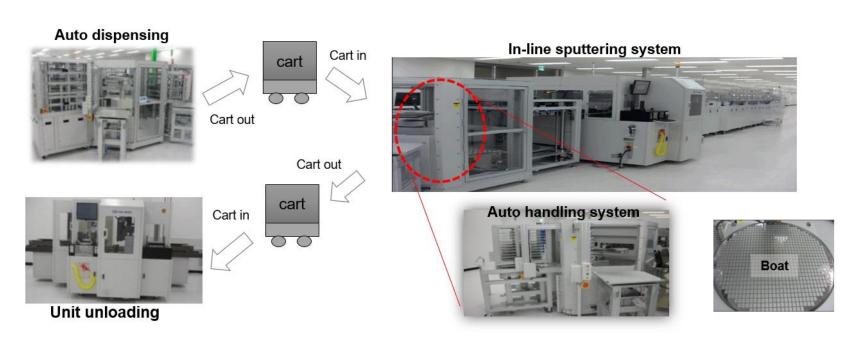


Electrical pathway

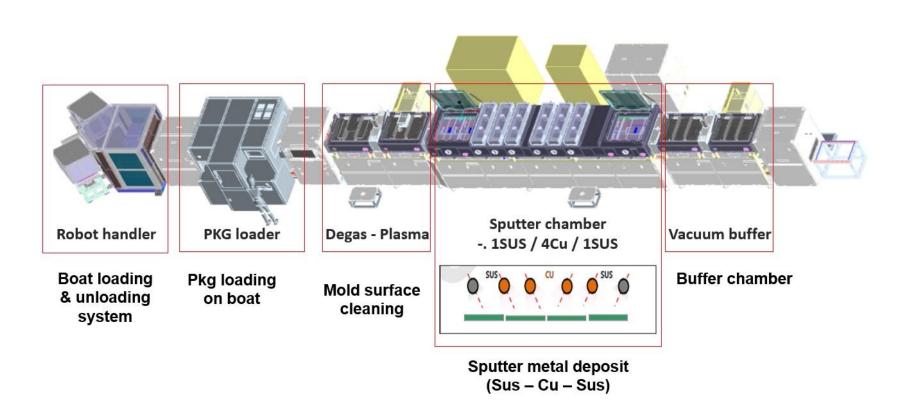


Machine configuration

- Full automation for all shielding process
 - Auto dispensing & Auto boat loading system
 - Auto Unit loading & off-loading by using only Pick & Place system
 - In-line sputtering system (Pkg loading Plasma cleaning Sputtering)



Sputter system layout



Process flow

